

WHAT IS CLAIMED IS:

- 1. A chain-control device for solar road studs comprising of a plurality of flash markings for performing interactive chain control to present a synchronous flash or a fancy flash performance, in which each road stud comprises:
an input device for receiving flash control signals;
a processing device for deciding the flash style according to the flash control signal relayed from the input device; and
an output device for outputting a flash control signal according to the flash style decided by the processing device so that the flash markings are enabled to present a regular synchronous flash or a fancy flash performance in linear or two-dimensional deposition.**
- 2. The chain-control device according to Claim 1, wherein the interactive chain control presents a synchronous flash performance.**
- 3. The chain-control device according to Claim 1, wherein the interactive chain control presents a fancy flash performance.**
- 4. The chain-control device according to Claim 3, wherein the fancy flash is created by a predetermined value.**
- 5. The chain-control device according to Claim 1, wherein the input device is a front-end signal receiver.**
- 6. The chain-control device according to Claim 1, wherein the processing device further comprises:
a power supply unit for providing electric power to the processing device;
a microprocessor unit for deciding the flash style; and
a memory unit for storing data from or providing data to the microprocessor unit.**
- 7. The chain-control device according to Claim 6, wherein the power supply unit further comprises:
a solar cell-board unit for converting solar energy into electric energy; and
a battery unit for storing the electric energy of the solar cell-board unit and outputting a first control signal.**

- 8. The chain-control device according to Claim 7, wherein the microprocessor unit would judge whether it is daytime or nighttime based on the first control signal.**
- 9. The chain-control device according to Claim 6, wherein the memory unit stores at least parameters of: working style of the flash marking, time interval between two neighboring flashes, changing manner of the fancy flash performance including alignment, and color.**
- 10. The chain-control device according to Claim 9, wherein the memory unit is an electrically erasable programmable read-only memory.**
- 11. The chain-control device according to Claim 1, wherein the output device further comprises:
a rear-end signal transmitter for outputting flash control signals; and
a flash light-emitting diode for emitting colorful flashes.**
- 12. The chain-control device according to Claim 11, wherein the flash control signal is carried by radio frequency waves.**
- 13. The chain-control device according to Claim 11, wherein the flash control signal is carried by infrared ray.**
- 14. The chain-control device according to Claim 9, wherein the parameters of the flash markings are set by an infrared remote controller.**
- 15. The chain-control device according to Claim 9, wherein the parameters of the flash markings are set by a radio frequency remote controller.**